

UNCLASSIFIED

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/556,359
Source: PCF/10
Date Processed by STIC: 11/21/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 11/21/2005

PATENT APPLICATION: US/10/556,359

TIME: 14:59:04

Input Set : A:\600-1-297PCT SEQ LIST.TXT

Output Set: N:\CRF4\11212005\J556359.raw

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4 <110> APPLICANT: Fischetti, Vincent
5     Nelson, Daniel
6     Schuch, Raymond
8 <120> TITLE OF INVENTION: Nucleic Acids and Polypeptides of C1
9     Bacteriophage and Uses Thereof
12 <130> FILE REFERENCE: 600-1-297PCT
-> 14 <140> CURRENT APPLICATION NUMBER: US/10/556,359
-> 14 <141> CURRENT FILING DATE: 2005-11-10
14 <150> PRIOR APPLICATION NUMBER: 60/470655
15 <151> PRIOR FILING DATE: 2003-05-15
17 <160> NUMBER OF SEQ ID NOS: 31
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 173
23 <212> TYPE: PRT
24 <213> ORGANISM: Bacteriophage C1 polypeptide
26 <400> SEQUENCE: 1
27 Met Lys Ile Arg Met Lys Thr Ile Tyr Thr Phe Ser Thr Thr Ile Ala
28 1           5           10           15
29 Thr Leu Ala Leu Gly Val Asn Leu Leu Met Asp Lys Gly Asp Asn Asn
30           20           25           30
31 Asn Val Asn Thr Asp Asn Thr Phe Asn Asn Ser Asn Pro Ile Val Gln
32           35           40           45
33 Val Asp Asn Asn Ser Ser Glu Ala Thr Thr Thr Ile Thr Ser Asp Thr
34           50           55           60
35 Asn Asp Asn Gln Val Ala Ala Asp Asp Thr Asn Asp Thr Glu Gln Leu
36 65           70           75           80
37 Asp Tyr Phe Gln Pro Tyr Glu Tyr Leu Tyr Met Pro Ser Thr Asn Val
38           85           90           95
39 Ser Ser Ile Arg Asp Gly Tyr Tyr Leu Val Ser Gly Gly Asn Thr Leu
40           100          105          110
41 Ala Ala Val Gln Ile Thr Asn Gly Tyr Thr Thr Asp Glu Phe Arg Leu
42           115          120          125
43 Lys Asn Ile Ser Ala Glu Gln Trp Thr Val Ser Gln Gln Gln Met Glu
44           130          135          140
45 Asp Phe Val Tyr Trp Leu Arg Glu Val Ser Pro Ser Gly Tyr Asn Gln
46 145          150          155          160
47 Lys Ser Leu Glu Asn Asn Phe Lys Ile Phe Ile Lys Lys
48           165          170
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 62
53 <212> TYPE: PRT
54 <213> ORGANISM: Bacteriophage C1 polypeptide

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56 <400> SEQUENCE: 2

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57 Met Lys Thr Gln Glu Trp Tyr Leu Val Asn Phe Gly Leu Tyr Glu Thr
58 1           5           10           15
59 Lys Thr Gln Glu Met Glu Thr Asn Ser Arg Tyr Phe Glu Asp Lys Gln
60           20           25           30
61 Ala Ala Leu Asp Phe Phe Tyr Thr Leu Ala Asn Glu Gly Tyr Tyr Asp
62           35           40           45
63 Trp Ala His Val Tyr Ser Asn Leu Glu Met Glu Ile Ile Leu
64           50           55           60

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67 <210> SEQ ID NO: 3

68 <211> LENGTH: 178

69 <212> TYPE: PRT

70 <213> ORGANISM: Bacteriophage C1 polypeptide

72 <400> SEQUENCE: 3

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73 Met Lys Gln Thr Asn Ile Asp Ala Leu Phe Gly Lys Gly Asp His Gln
74 1           5           10           15
75 Leu Met Asn Lys Glu Ser Lys Tyr Leu Ser Thr Leu Phe Ile Asn Ile
76           20           25           30
77 Glu Glu Leu Ser Val His Leu Ser Ser Val Thr Leu Phe Ile Asp Glu
78           35           40           45
79 Tyr Glu Gln Leu Lys Glu Asn Ala Ile Lys Ser Lys Asn Gly Lys Cys
80           50           55           60
81 Leu Lys Leu Gly Asn Thr Leu Tyr Phe Thr Asn Asn Asn Tyr Ala Thr
82 65           70           75           80
83 Lys Leu Tyr Asn Ser Leu Leu Ala Leu Gly Phe Asn Gly Ala Asn Ser
84           85           90           95
85 Phe Ser Ser Gly Glu Gln Thr Tyr Val Ile Ser Leu Thr Gly Gly Asn
86           100          105          110
87 Ala Thr Leu Thr Thr Val Lys Thr His Tyr Gly Asp Val Lys Tyr His
88           115          120          125
89 Tyr Lys His Glu Lys Leu Pro Val Lys Lys Ile Val Asn Asp Phe Trp
90           130          135          140
91 Leu Ser Glu Gln Glu Tyr Val Tyr Thr Asn Ser Ile Lys Leu Ala Tyr
92 145          150          155          160
93 Ala Leu Leu Asp Leu Tyr Lys Thr Met Gly Tyr Ser Thr Leu Asn Thr
94           165          170          175

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95 Ile Lys

99 <210> SEQ ID NO: 4

100 <211> LENGTH: 105

101 <212> TYPE: PRT

102 <213> ORGANISM: Bacteriophage C1 polypeptide

104 <400> SEQUENCE: 4

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105 Met Ala Ile Asn Phe Thr Asn Ile Gly Phe Ile Asn Phe Asn Lys Glu
106 1           5           10           15
107 Tyr Asn Lys Val Leu Lys Asn Gly Ala Ile Thr Ala Ser Met Ser Ala
108           20           25           30
109 Ser Gln Lys Asp Val Lys Gly Glu Tyr Val Asp Glu Tyr His Asn Val
110           35           40           45
111 Thr Ile Pro Lys Lys Val Ala Asp Gln Ile Lys Pro Leu Ile Asn Thr

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112      50                      55                      60
113 Glu Leu Cys Asp Ile Gln Gly Val Ile Ser Arg Asn Asp Lys Tyr Thr
114 65                      70                      75                      80
115 Asn Ile Thr Ile Leu Gly Ala Lys Lys His Val Lys Ala Glu Ala Val
116                      85                      90                      95
117 Asp Val Ala Asp Glu Asp Leu Pro Phe
118      100                      105
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 207
123 <212> TYPE: PRT
124 <213> ORGANISM: Bacteriophage C1 polypeptide
126 <400> SEQUENCE: 5
127 Met Lys Gly Asp Glu Glu Arg Thr Ile Lys Ser Leu Phe Pro Leu Phe
128 1      5      10      15
129 Lys Tyr Met Ala Asn Lys Arg Gln Arg Lys Lys Gln Leu Lys Gln Gln
130      20      25      30
131 Tyr Gly Val Gly His Lys Tyr Thr Pro Lys Leu Ser Gln Thr Gln Gln
132      35      40      45
133 Lys Gln Ala Asp Phe Leu Lys Ser Ile Gly Gln Lys Phe Thr Asn Tyr
134      50      55      60
135 Gln Thr Val Thr Ile Asp Lys Thr Tyr Ser Lys Asn Gln Glu Leu Leu
136 65      70      75      80
137 Asp Thr Ala Asn Glu Ala Leu His Arg Leu Gly Ile Phe Phe Asp Gly
138      85      90      95
139 Ser Glu Lys Ile Lys Leu Gln Gln Val Thr Asp Asp Asp Leu Arg Tyr
140      100      105      110
141 Ile Ile Asn Lys Leu Gln Pro Leu Leu Glu Ser Val Thr Met Arg Tyr
142      115      120      125
143 Lys Lys Phe Leu Thr Asn Thr Tyr Arg Ser Asn Asn Arg Asp Tyr Arg
144      130      135      140
145 Leu Asp Trp Leu Leu Lys Ser Ala Ile Ser Lys Lys Leu Lys Asn Ala
146 145      150      155      160
147 Gln Thr Val Arg Gly Leu Val Val Ala Ile Asn Lys Met Asp Arg Asp
148      165      170      175
149 Phe Lys Glu Tyr Asp Lys Lys Leu Arg Lys Ser Ser Lys Gln Gly Asn
150      180      185      190
151 Pro Phe Gly Phe Val Val Val Lys Tyr Ser Glu Met Gly Leu Met
152      195      200      205
155 <210> SEQ ID NO: 6
156 <211> LENGTH: 408
157 <212> TYPE: PRT
158 <213> ORGANISM: Bacteriophage C1 polypeptide
160 <400> SEQUENCE: 6
161 Met Ala Arg Lys Val Lys Lys Thr Ile Lys Thr Ile Phe Lys Asn Glu
162 1      5      10      15
163 Glu Glu Glu Phe Lys Thr Leu Leu Asn Asp Tyr Arg Lys Lys Tyr Leu
164      20      25      30
165 Pro Ser Lys Tyr Asn Gln Leu Glu Leu Leu Asp Trp Leu Cys Ser Asp
166      35      40      45

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167 Glu Ile Leu His Tyr Met Ser Ile Thr Ser Arg Gly Asp Gly Lys Ser
168      50                      55                      60
169 Phe Asn Tyr Ile Gly Ala Leu Ala Trp Leu Ser Tyr His Leu Asn Phe
170 65                      70                      75                      80
171 Gly Thr Met Leu Leu Val Arg His Trp Ser Leu Met Asp Lys Met Ala
172                      85                      90                      95
173 Glu Met Val Phe Glu Ile Ile Arg Thr Val Gly Met Phe Asp Ile Glu
174                      100                     105                     110
175 Asn Val Gly Ile Gln Ala Lys Ala Asp Tyr Leu Thr Ile Thr Ile Glu
176                      115                     120                     125
177 Gly Arg Glu Val Phe Ile Ile Thr Asn Leu Asn Asn Ala Ser Asp Leu
178                      130                     135                     140
179 Lys Gln Ser Ser Ala Val Leu Arg Asn Tyr Pro Val Val Leu Tyr Asp
180 145                     150                     155                     160
181 Glu Phe Leu Thr Leu Gly Glu Asp Tyr Val Thr Asn Glu Leu Ala Lys
182                      165                     170                     175
183 Leu Gln Thr Ile Ile Lys Ser Ile Asp Arg Met Gly Lys Arg Pro Tyr
184                      180                     185                     190
185 Ile Lys Arg Pro Lys Ile Ile Tyr Leu Gly Asn Pro Val Asn Phe Asp
186                      195                     200                     205
187 Ser Pro Ile Leu Pro Ala Leu Asn Ile Phe Tyr Ala Leu Gln Asn Gln
188                      210                     215                     220
189 Glu Ile Asn Thr Ile Gln Gln His Gly Lys Thr Ile Leu Glu Leu Arg
190 225                     230                     235                     240
191 Arg Asn Asp Glu Val Asn Glu Glu Lys Thr Thr Gly Tyr Phe Glu Asp
192                      245                     250                     255
193 Ser Val Asp Ser Asp Ile Thr Gly Glu Phe Asn Phe Ser Asn Tyr Arg
194                      260                     265                     270
195 Leu Ala Asp Gln Gln Thr Tyr Asn Lys Ala Leu Thr Asn Gly Thr Leu
196                      275                     280                     285
197 Tyr Lys Ile Arg Leu Glu Asp Lys Leu Ser Tyr Val Ile Leu Glu Ser
198                      290                     295                     300
199 Asp Asn Glu Tyr Ile Leu Ser Ile Glu Glu Ser Lys Leu Asp Glu Asn
200 305                     310                     315                     320
201 Tyr Cys Ile His Leu Lys Asp Glu Thr Ala Thr Cys Glu Tyr Leu Lys
202                      325                     330                     335
203 Pro Ser Phe Tyr Lys Asp Ser Phe Ile Lys Arg Phe Gln Lys Gly His
204                      340                     345                     350
205 Phe Asn Phe Lys Asp Ser Phe Ser Arg Thr Phe Ile Glu Gly Asn Glu
206                      355                     360                     365
207 Asp Leu Gln Arg Leu Asn Phe Phe Lys Leu Asn Ala Val Ala Ser Thr
208                      370                     375                     380
209 Asp His Glu Asp Ala Tyr Ala Asn Ile Val Arg Glu Ser Trp Ile Ser
210 385                     390                     395                     400
211 Arg Leu Ala Lys Ile Tyr Glu Gln
212                      405
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 784
217 <212> TYPE: PRT

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Input Set : A:\600-1-297PCT SEQ LIST.TXT

Output Set: N:\CRF4\11212005\J556359.raw

218 <213> ORGANISM: Bacteriophage C1 polypeptide

220 <400> SEQUENCE: 7

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221 Met Lys Glu Phe Glu Gln Tyr Leu Lys Ser Phe Lys Gly Gln Lys Val
222   1           5           10           15
223 Thr Ser Val Asp Leu Tyr Cys Asp Ile Glu Thr Ala Thr Ile Asn Lys
224           20           25           30
225 Asn Ser Gly Gln Lys His Ala Ser Thr Tyr His Ser Phe Thr Tyr Ser
226   35           40           45
227 Leu Ala Val Ser Tyr Phe Lys Thr Gly Glu Glu Phe Pro Ser Val Val
228   50           55           60
229 Val Phe Asn His Phe Lys Gln Leu Phe Asp Phe Ile Glu Lys Ser Lys
230 65           70           75           80
231 Ile Arg Lys Ser Ile Glu Phe Arg Leu Ile Phe His Asn Gly Ala Lys
232           85           90           95
233 Tyr Asp Asn His Phe Met Val Ser Glu Ile Gln Arg Asp Ile Asp Asn
234   100          105          110
235 Val Arg Leu Phe Asn Gln Thr Ile Lys Gln Val Asn His Ile Thr Asp
236   115          120          125
237 Leu Asp Leu Ser Lys Lys Gln Gly Lys Gln Met Arg Asn Asp Val Asn
238   130          135          140
239 Met Val Leu Glu Arg Arg Val Arg Ser Ser Asn Asn Leu Asp Gly Asp
240 145          150          155          160
241 Met Trp Ile Tyr Gly Arg His Tyr Glu Met Val Asp Ser Tyr Arg Lys
242           165          170          175
243 Thr Asn Val Ser Ile Glu Leu Cys Gly Arg Met Leu Leu Asn Asn Gly
244           180          185          190
245 Leu Ile Asp Glu Gln Tyr Leu Lys Thr Asp Phe Glu Tyr Asp Lys Tyr
246           195          200          205
247 Asp Leu Asp Thr Asp Leu Thr Trp His Glu Val Arg Lys Tyr Arg Glu
248   210          215          220
249 Phe Ile Phe Asn Asp Leu Asp Glu Lys Gln Met Lys Tyr Ile His Asn
250 225          230          235          240
251 Asp Val Ile Ile Leu Ala Leu Thr Cys Lys His Tyr Ser Lys Leu Phe
252           245          250          255
253 Tyr Gly Phe Asp Phe Glu Lys Gln Thr Phe Thr Gln Asn Ile Lys Glu
254           260          265          270
255 Glu Tyr Ala Asn Tyr Asn Asp Met Ala Lys Phe Gln Leu Leu Lys Gln
256           275          280          285
257 Ile Gly Asp Asn Met Thr Gly Lys His Leu Lys Leu Thr Asp Tyr Phe
258   290          295          300
259 Ile Gln Gly Gln Asn Ala Tyr Asp Tyr Phe Lys Asn Tyr Tyr Asn Gly
260 305          310          315          320
261 Gly Leu Asn Leu Tyr Asn Asp Lys Tyr Ile Gly Lys Lys Leu Val Arg
262           325          330          335
263 Asp Gly Phe Ser Ile Asp Leu Asn Ser Ser Tyr Pro Thr Val Met Tyr
264           340          345          350
265 Lys Glu Lys Leu Pro Thr Phe Leu Val Met Val Asp Ser Lys Pro Thr
266           355          360          365
267 Asp Leu Lys Asn Ile Gly Ser Thr Asp Gly Asp Tyr Met Val Phe Phe

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VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/556,359

TIME: 14:59:05

Input Set : A:\600-1-297PCT SEQ LIST.TXT

Output Set: N:\CRF4\11212005\J556359.raw

14 M:270 C: Current Application Number differs, Replaced Current Application No

14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

347 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:

388 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:

1093 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:

1105 M:259 W: Allowed number of lines exceeded, <213> ORGANISM: